AWS DEVOPS TRAINING DAY-3

Setting up Jenkins on our machines:

**Step-1:**

Install GIT for windows(Download GIT from internet &install)

**Step-2:**

1. Go to Google chrome🡪Search Java development kit and download the Jdk11 for windows.
2. Go to C drive🡪program files🡪Java🡪Jdk11🡪copy the path.
3. Search for edit system variables from start up menu🡪Go to Environmental variable-->Click on new user variable.

Variable name : JAVA\_HOME

Variable value: path copied on 2nd of step 2

1. Now go to system variable🡪New

Variable name : JAVA\_HOME

Variable value : path copied on 2nd of step 2

1. C drive🡪Program file🡪Java🡪Jdk11🡪bin🡪copy the path of bin folder.
2. Go to Environmental variable🡪In system variable you will find path🡪Double click on path🡪Click on New🡪Add the link of bin folder.
3. To verify above steps go to start up menu and search cmd🡪Enter **echo %JAVA\_HOME%**

**Step-3:**

1. Go to google chrome🡪search Maven on google🡪Download Binary Zip file🡪Extract in C drive.
2. Go to C drive🡪Maven folder🡪copy the path.
3. Search for edit system variables from start up menu🡪Go to Environmental variable🡪Click on new in system variable.

Variable name : M2\_HOME

Variable value : path copied on 2nd of step2

1. C drive🡪program file🡪Maven folder🡪bin folder🡪copy the path.
2. Go to environmental variable🡪In system variable you will find path🡪double click on path🡪click on new and then paste the bin path.
3. Open cmd🡪enter **mvn --version**🡪enter **echo %M2\_HOME%**

**Step-4:**

1. Go to google chrome🡪search Jenkins🡪open Jenkins website🡪click on download🡪select LTS🡪click on windows🡪Run &install.
2. After installation it will automatically open localhost:8080.
3. Copy the link from localhost:8080🡪paste it in C drive🡪enter🡪select note pad🡪copy the password from note pad🡪paste it in administrator password🡪click on continue.
4. Create an account using user name,password, full name and email🡪conform.
5. Account is created &Jenkins home page will be displayed.

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Build the project using Jenkins:

1. Start Jenkins.
2. Click in manage Jenkins 🡪 manage plugin 🡪 go to available 🡪 search maven & select maven integration.
3. Now restart Jenkins (https:localhost:8080/restart/).
4. Click on manage Jenkins 🡪 global tool configuration 🡪add JDK 🡪 untick install automatically.

Name: JAVA

JAVA\_HOME: Paste the link of JDK folder.

1. Scroll down 🡪 add maven 🡪 untick install automatically.

Name: **MAVEN**

MAVEN\_HOME: Paste the link of maven folder

1. Go to GITHUB account sign in to your account.
2. Go to the link copy the link of git repository and on the top right you will see the fork symbol then click on that
3. Go to Jenkins 🡪 again click on new item 🡪 name: “mymavenfirstproject” (any name) 🡪 select maven

Project 🡪 click on ok button 🡪 configure page will opened 🡪 go to build environment 🡪 go to goal & option 🡪 enter **clean package** 🡪 click on save.

1. Go back to dashboard of Jenkins 🡪 mymavenfirstproject 🡪 click on build now.
2. Your maven project will build.

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Labs For Scheduled Project: -

1. Click on Project (my maven first project)
2. GO to configure🡪Build trigger🡪Build periodically🡪add there (\* \* \* \* \*)
3. Now come back to dashboard refresh the page you will see project build happen every time(minute)

Labs For Poll SCM: -

1. Go to Jenkin homepage🡪Click on project🡪Click on configure.
2. Go to build trigger🡪Scroll down find POLL SCM tick on it🡪write \* \* \* \* \*
3. Now go to GITHUB account🡪Click on user name🡪devops class code🡪(scroll down) README.md🡪click on edit, do some changes🡪 (scroll down) in commit changes write create readme.md
4. Go to Jenkin home page, refresh the page, you will see the build happens automatically after every minute.

To Achieve Linked Project, Two Types

* Upstream Linked Project
* Downstream Linked Project.

Labs For Upstream: -

1. Go to Jenkin 🡪New Item🡪Enter Job A🡪Freestyle project🡪Ok.
2. In job A, go to **Build🡪**Execute windows batch command🡪Write **echo “welcome”🡪**Ok.
3. Now go to dashboard 🡪Click on Job A 🡪Click on Build now.
4. Now go to Job A 🡪 Configure🡪Build🡪Post build action🡪enter your maven project🡪Tick the Trigger only if the build is stable🡪Save.

Labs For Downstream: -

1. Go to Maven Project🡪Configure🡪Build trigger🡪tick -->Build after other projects are built🡪Write Job A🡪Save.
2. Go to job A🡪Click on Job A.
3. You will see that automatically after job A is done Maven Project job would be started.